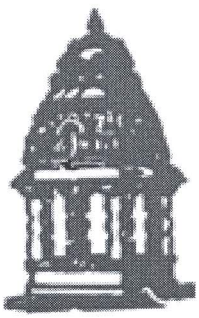
BRUHAT BANGALORE MAHANAGARA PALIKE



Asst. Executive Engineer,
Byatarayanapura Sub division

Name of Work:- Improvements to Roads And Drains at Muneshwara Nagar and Surrounding Area in Ward No.05 Jakkur

Est Cost:97.00 Lakhs

BRUHATH BENGALORE MAHANAGARA PALIKE

Name of work: Improvements to Roads And Drains at Muneshwara Nagar and Surrounding Area in Ward No.05 Jakkur

Sl No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Estimated Cost:97.00 Lkahs Quantity	Unit	Rate	Amount
1	KSRRB 300-3. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 142/ Item No. 19.1/ PWD SR 2018-19)**								
	For RCC Drain								
	Muneshwara Nagara								
	Main road	1	190.00	1.10	1.00	209.00			
	4th cross	1	50.00	1.10	1.00	55.00			
	Govt.School Road	2	55.00	1.10	1.00	121.00			
	Cross road	2	50.00	1.10	1.00	110.00			
	Shiva Pura								
	1st cross	1	129.00	1.10	1.00	141.90			
	1st B Cross	2	205.00	1.10	1.00	451.00			
	For RCC Culvert								
	Muneshwara Nagara								
	Govt.School Road	1	7.00	2.00	1.00	14.00			
	Cross road	1	6.00	2.00	1.00	12.00			
	Shiva Pura								
	1st cross	1	5.00	2.00	1.00	10.00			
	1st B Cross	1	7.00	2.00	1.00	14.00			
	For CC Road								
	Dead End Road from 3rd cross	1	79.00	5.00	0.30	118.50			
						1256.40	**Cum**	**220.40**	**276910.56**
	Basic Rate	130.00							
	Loading and Unloading	57.00							
	Lead For Earth 10km	25.60							
	Area Weightage 6%	7.80							
	Data Rate	**220.40**							
2	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 PWD SR 2018-19)**								
	For RCC Drain								
	Muneshwara Nagara								
	Main road	1	190.00	1.10	0.15	31.35			
	4th cross	1	50.00	1.10	0.15	8.25			
	Govt.School Road	2	55.00	1.10	0.15	18.15			
	Cross road	2	50.00	1.10	0.15	16.50			
	Shiva Pura								
	1st cross	1	129.00	1.10	0.15	21.29			
	1st B Cross	2	205.00	1.10	0.15	67.65			
	For RCC Culvert								
	Muneshwara Nagara								
	Govt.School Road	1	7.00	2.00	0.15	2.10			

Sl No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
	Cross road	1	6.00	2.00	0.15	1.80			
	Shiva Pura								
	1st cross	1	5.00	2.00	0.15	1.50			
	1st B Cross	1	7.00	2.00	0.15	2.10			
	For CC Road								
	Muneshwara Nagara								
	Dead End Road from 3rd cross	1	79.00	5.00	0.15	59.25			
						229.94	**Cum**	**5509.33**	**1266787.03**
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total	**5197.48**							
	Area Weightage 6%	311.85							
	Grand Total	**5509.33**							
3	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm **(I No-37.59.2,P No-271 PWD SR 2018-19)**								
	For Bottom raft								
	For RCC Drain								
	Muneshwara Nagara								
	Main road	1	190.00	0.90	0.15	25.65			
	4th cross	1	50.00	0.90	0.15	6.75			
	Govt.School Road	2	55.00	0.90	0.15	14.85			
	Cross road	2	50.00	0.90	0.15	13.50			
	Shiva Pura								
	1st cross	1	129.00	0.90	0.15	17.42			
	1st B Cross	2	205.00	0.90	0.15	55.35			
	For RCC Culvert								
	Muneshwara Nagara								
	Govt.School Road	1	7.00	1.50	0.15	1.58			
	Cross road	1	6.00	1.50	0.15	1.35			
	Shiva Pura								
	1st cross	1	5.00	1.50	0.15	1.13			
	1st B Cross	1	7.00	1.50	0.15	1.58			
	For RCC Wall								
	For RCC Drain								
	Muneshwara Nagara								
	Main road	2	190.00	0.15	0.70	39.90			
	4th cross	2	50.00	0.15	0.70	10.50			
	Govt.School Road	4	55.00	0.15	0.70	23.10			
	Cross road	4	50.00	0.15	0.70	21.00			
	Shiva Pura								
	1st cross	2	129.00	0.15	0.70	27.09			
	1st B Cross	4	205.00	0.15	0.70	86.10			
	For RCC Culvert								
	Muneshwara Nagara								

Sl No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
	Govt.School Road	2	7.00	0.30	0.60	2.52			
	Cross road	2	6.00	0.30	0.60	2.16			
	Shiva Pura								
	1st cross	2	5.00	0.30	0.60	1.80			
	1st B Cross	2	7.00	0.45	0.60	3.78			
	For Ramp								
	Muneshwara Nagara								
	Govt.School Road	2	7.00	0.75	0.10	1.05			
	Cross road	2	6.00	0.75	0.10	0.90			
	Shiva Pura								
	1st cross	2	5.00	0.75	0.10	0.75			
	1st B Cross	2	7.00	0.60	0.10	0.84			
						360.63	**Cum**	**7189.42**	**2592719.89**
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)=1471.89						
	Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
	Sub Total	**6782.47**							
	Area Weightage 6%	406.95							
	Grand Total	**7189.42**							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 **TMT Bars Fe-500(I No-28.8.2,P No-229 PWD SR 2018-19)**								
	Consider 65kg/Cum for RCC drain	1	344.75	65.00		22408.43			
	Consider 90kg/Cum for RCC Culvert	1	15.89	90.00		1429.65			
						23.84	**Tonne**	**65046.90**	**1550592.88**
	Issued rate	61365.00							
	Area Weightage 6%	3681.90							
	Data Rate	**65046.90**							
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.**(Data Rate)**								
	For RCC Drain								
	Muneshwara Nagara								
	Main road	1	190.00	0.90		171.00			
	4th cross	1	50.00	0.90		45.00			
	Govt.School Road	2	55.00	0.90		99.00			
	Cross road	2	50.00	0.90		90.00			
	Shiva Pura								
	1st cross	1	129.00	0.90		116.10			
	1st B Cross	2	205.00	0.90		369.00			
						890.10	**Sqm**	**2337.00**	**2080163.70**
	Data Rate	**2337.00**							

Sl No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
6	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. **(Data Rate)**								
	For RCC Culvert								
	Muneshwara Nagara								
	Govt.School Road	1	7.00	1.50		10.50			
	Cross road	1	6.00	1.50		9.00			
	Shiva Pura								
	1st cross	1	5.00	1.50		7.50			
	1st B Cross	1	7.00	1.50		10.50			
						37.50	**Sqm**	**5418.00**	**203175.00**
	Data Rate	**5418.00**							
7	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page No-147 Item no - 19.64 of KPWD SR 2018-19)								
	For CC Road								
	Muneshwara Nagara								
	Dead End Road from 3rd cross	1	79.00	5.00		395.00			
						395.00	**Sqm**	**6.36**	**2512.20**
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Data Rate	**6.36**							
8	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)								
	For CC Road								
	Muneshwara Nagara								
	Dead End Road from 3rd cross	1	79.00	5.00	0.15	59.25			
						59.25	**Cum**	**5354.02**	**317225.79**
	Basic Rate	4916.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						

Sl No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
	Add Cement cost as per Issue rate	1901.23	Note:- (360*264.06/50)=1901.23						
	Sub Total	**5050.96**							
	Area Weightage 6%	303.06							
	Grand Total	**5354.02**							
								Total Construction Cost	**8290087.05**
								GST Charges 12%	**994810.45**
								Tender Premium 5%	**414504.35**
								Sub Total	**9699401.85**
								Utility Shifting,Miscellaneous and Rounding off	**598.15**
								GRAND TOTAL	**9700000.00**
Rupees Ninety Seven Lakh(s) Only									

Certificate

1) This Work Comes Within BBMP Limits.
2) Certified that personaly Inspected the Work Spot.
3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 & issued rate Dated. 01/07/2020
4) Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most conomical way
5) This work is not include in any other program of work.

Assistant Engineer
Ward No.05

Asst. Executive Engineer
Byatarayanapura Sub division

Executive Engineer
Byatarayanapura Division
12/10

ADMINISTRATIVE APPROVAL

Accorded For Rs. 97.00 Lakhs.

Head of A/c. P-3657

Div. Ref. No. 52 Date. 24/11/12

AE 24/11

EE(BTP) 24/11

Accorded for Rs. 97,00,000/-
NINTY SEVEN LAKHS ONLY

Under P-3657

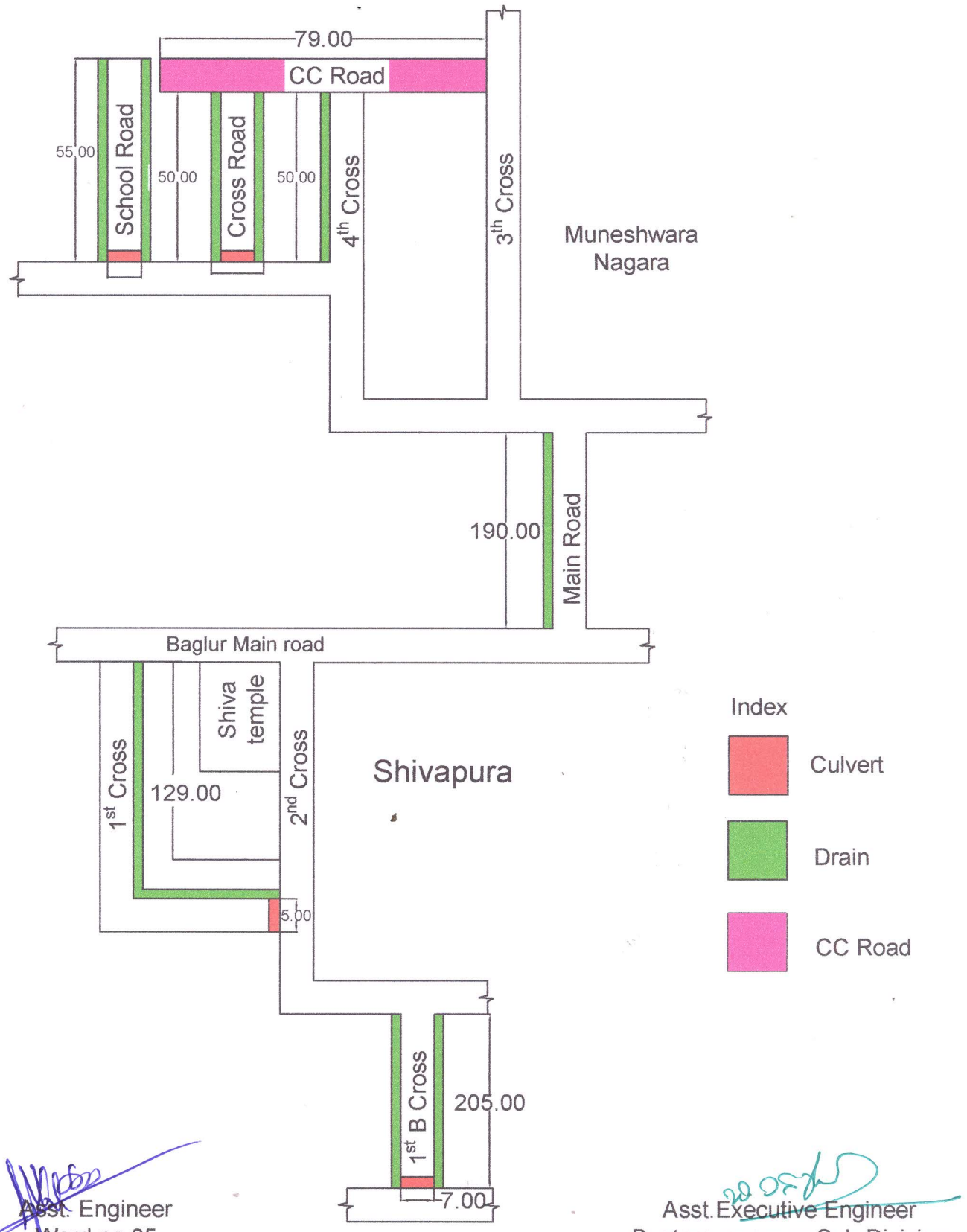
Job Code No 005-21-000019

Registered as SE(Y)/TS/ 51 / 20-21
to conditions contained in enclosed memo
51 / Dated: 02.12.2020

2/12/2020

JE TA SE(Yelahanka)

Name of work :- Improvements To Roads And Drains at Muneshwara Nagara and Surroundings area in Ward No.05 Jakkur

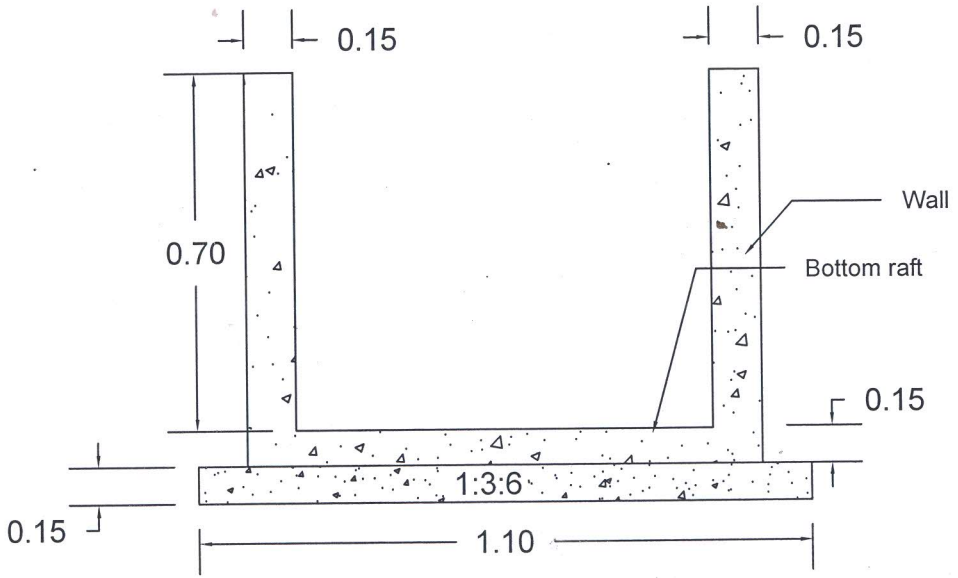


Asst. Engineer
Ward no 05

Asst.Executive Engineer
Byatarayanapura Sub-Division

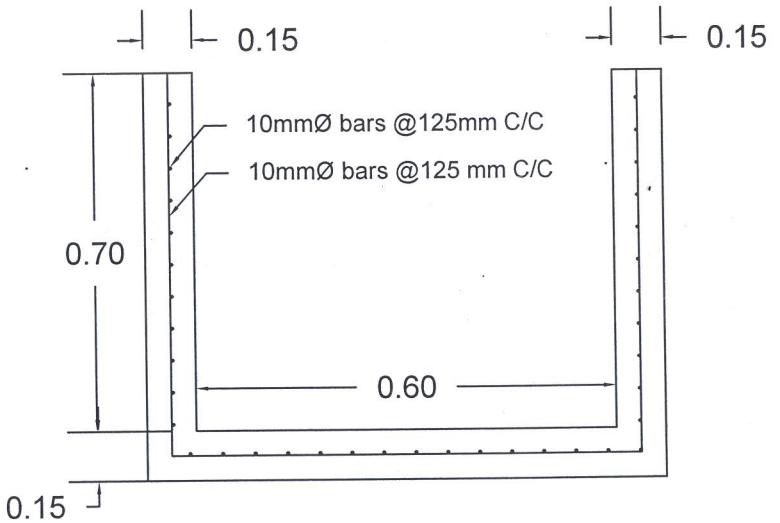
Name of Work: Improvements To Roads and Drains at Muneshwara Nagar and Surrounding Area in Ward No.05 Jakkur

RCC DRAIN



Cross Section

RCC DRAIN



Cross Section

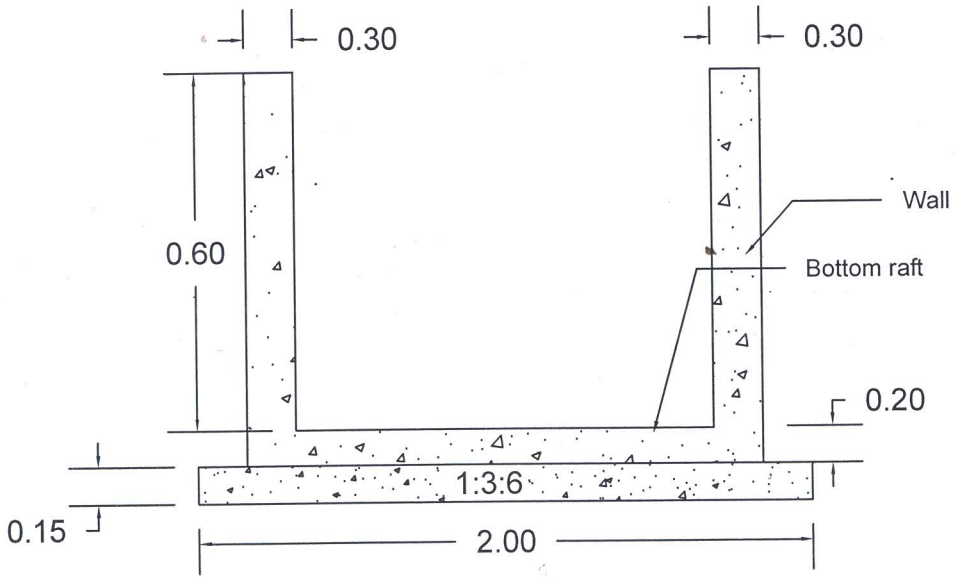
Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byatarayanapura Sub Division

All Dimensions are in Meter

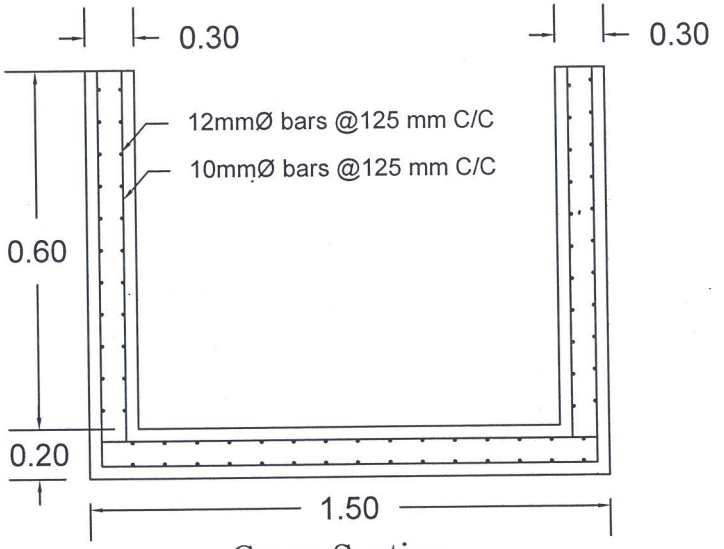
Name of Work: Improvements To Roads and Drains at Muneshwara Nagar and Surrounding Area in Ward No.05 Jakkur

RCC CULVERT



Cross Section

RCC CULVERT



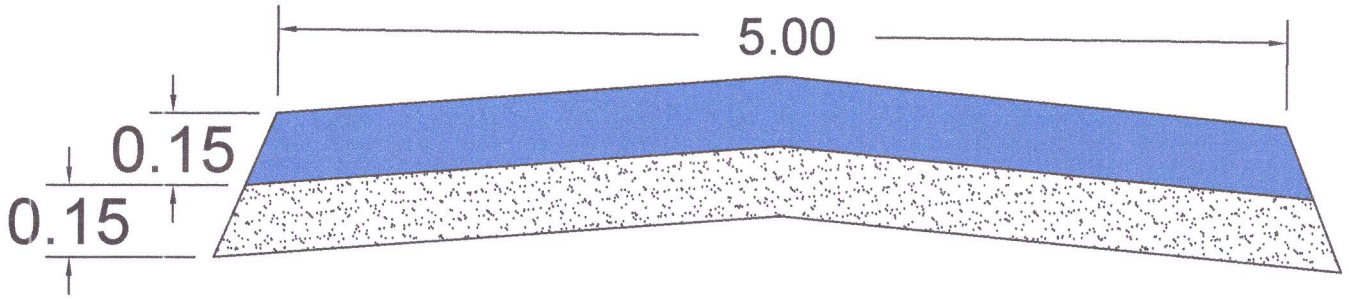
Cross Section

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byatarayanapura Sub Division

All Dimensions are in Meter

Name of Work: Improvements To Roads and Drains at Muneshwara Nagar and Surrounding Area in Ward No.05 Jakkur



Cross Section of CC Road

Index:-

CC Pavement

1:3:6 (P.C.C)

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byatarayanapura Sub Division

All Dimensions are in Meter